

## Author Index

- Abe, T., 351  
Akashi, M., 95, 107  
Akiyama, T., 137  
Aoyama, Y., 177  
Ariga, K., 47, 177, 271  
Arimura, M., 143  
Ashokkumar, M., 219  
  
Boyd, B.J., 317  
  
Caruso, F., 287  
Caruso, R.A., 219  
Chen, C.-W., 107  
Cheng, L., 209  
  
Danino, D., 67  
Dong, S., 209  
Drummond, C.J., 317  
  
Elliot, D.J., 233  
Endo, K., 177  
Engberts, J.B.F.N., 85  
  
Fiedler, H., 287  
Fujita, S., 251  
Fukada, K., 117  
Fukuda, T., 117  
Furlong, D.N., 233, 317  
Furlong, N., 1  
Furusaki, S., 259  
  
Ghebremariam, B., 5  
Goto, M., 259  
Grieser, F., 219, 233  
  
Haage, K., 287  
Hanabusa, K., 307  
Harada, A., 155  
Hatate, Y., 259  
Hayashi, H., 17  
Hayashi, S., 351  
  
Herrmann, R., 337  
Higashi, N., 351  
Hirata, T., 307  
Hirayama, C., 27  
Hisaeda, Y., 47, 143  
Hurst, J.K., 329  
  
Ichinose, I., 137  
Iida, K., 199  
Inoue, D., 307  
Inoue, H., 233  
Ishizaki, T., 27  
  
Kagawa, S., 125  
Kajiyama, T., 295  
Kanekiyo, Y., 131  
Kasagi, T., 171  
Kasai, H., 251  
Kashiwada, A., 199  
Katagiri, K., 47  
Kawasaki, H., 117  
Khairutdinov, R.F., 329  
Kikuchi, J.-i., 47  
Kimizuka, N., 1  
Kimura, M., 307  
Knoll, W., 337  
Kobuke, Y., 187  
Kojio, K., 295  
Koyama, E., 271  
Kunitake, M., 27  
Kunitake, T., 137  
Kuramori, M., 155, 171  
Kurihara, K., 351  
  
Liebermann, T., 337  
Liu, F., 209  
Lucchesi, L.D., 329  
  
Maeda, H., 117  
Matile, S., 5  
Matsubara, K., 271  
  
Matsumoto, H., 17  
Miyazaki, A., 137  
Moffat, J.B., 17  
Moriguchi, I., 125  
Moroi, Y., 75  
Murakami, H., 163  
  
Nagamura, T., 233  
Nakahara, M., 35  
Nakanishi, H., 251  
Nakashima, N., 163  
Nango, M., 199  
Narumi, K., 271  
Nishinaka, M., 35  
Niwa, M., 351  
Nogami, Y., 227  
Nomura, H., 35  
  
Ohgoshi, A., 187  
Ohira, A., 27  
Ohshima, E., 47, 143  
Ohshima, H., 13  
Ohtaka-Saiki, H., 227  
Oikawa, H., 251  
Oishi, Y., 155, 171  
Okabe, M., 75  
Okada, S., 251  
Okahata, Y., 1, 177  
Okamoto, K., 241  
Okamura, J., 131  
Owaki, H., 163  
  
Sagara, T., 163  
Sakaguchi, H., 233  
Sakata, M., 27  
Sano, M., 131  
Sato, Y.-i., 271  
Serizawa, T., 95, 107  
Shen, J., 209  
Shimada, Y., 125  
Shinkai, S., 131

- Shirai, H., 307  
Shiraishi, Y., 59  
Sluka, P., 337  
Suehiro, K., 155, 171  
Sugiyama, S., 17  
Sun, J., 209  
Sutoh, M., 137
- Tada, M., 233  
Takahara, A., 295  
Takahashi, M., 241  
Takezako, T., 107  
Talmon, Y., 67  
Tamura, K., 241
- Tanaka, K., 47  
Taniguchi, I., 27  
Taniguchi, K., 95  
Tedesco, M.M., 5  
Teraoka, Y., 125  
Tokunaga, T., 163  
Tominaga, T., 35, 227  
Toshima, N., 35, 59  
Tripathy, S.K., 251
- Uezu, K., 259
- Wakai, C., 35  
Wang, Z., 209
- Watanabe, H., 227  
Weerawardena, A., 317
- Yamada, N., 271  
Yamada, S., 137  
Yamagishi, A., 241  
Yamamoto, A., 117  
Yamamoto, K., 107  
Yang, Y., 85  
Yonezawa, T., 35  
Yoshida, M., 259
- Zana, R., 67  
Zhang, X., 209

## Subject Index

- Adenosine 5'-monophosphate, 131
- Adsorption-induced self-organization, 27
- Aggregation, 307
- Aggregation number, 227
- Aggregation structure, 155
- $\pi$ -A Isotherm, 47
- Alkylalkoxysilane derivatives, 125
- Alkyl glucoside, 317
- Alkyl maltoside, 317
- Alkylpolyglucoside, 317
- Amino acid, 259
- Amphiphilic ion pair, 187
- Anomers, 317
- Arginine, 143
- Artificial enzyme, 143
- Artificial ion channel, 187
- Atomic force microscopy, 131
  
- Bacteriochlorophyll *a*, 199
- Barium hydroxyapatite, 17
- Bending angle, 85
- Bilayer membrane, 143
- Biological rhythmicity, 5
- Boronic acid–sugar interaction, 131
  
- Catalysis, 287
- Catalyst, 107
- CdS nanoparticles, 233
- Charge regulation, 351
- Circular dichroism, 5
- Clay minerals, 241
- Cloud-point temperature, 107
- $^{13}\text{C}$  NMR, 35
- Colloid, 287
- Colloidal dispersions, 35
- Colloidal metal catalyst, 59
- Colloidal platinum nanoparticles, 107
- Complement hybridization, 337
- Coordination, 47
- Counter ion binding, 227
- Counterion effect, 117
  
- Cryo-TEM, 67
- $\beta$ -Cyclodextrin, 27
  
- DAST, 251
- DC electric field, 85
- 2'-Deoxyadenosine 5'-monophosphate, 131
- (De)swelling behavior, 85
- Detergency, 317
- Dipole moment, 251
- Dodecyldimethylamine oxide, 117
- Dodecyldimethylamine oxide hemi-hydrochloride, 117
- Dodecyldimethylamine oxide hydrochloride, 117
- Double-layer potential, 13
  
- Electric field induced orientation, 251
- Electrochemical catalytic reduction, 163
- Electron diffraction, 155
- EMF, 227
- Enantioselectivity, 259
- Enzyme, 287
- Ethylene oxide, 59
  
- Femtosecond laser excitation, 233
- Fluorescence-activation, 233
- Fluorescence decay, 227
- Formation mechanism, 295
- Friction, 171
- FTIR spectroscopy, 351
- Fullerene, 137
  
- Gaseous guest binding, 177
- Gas permeation, 125
- Gelation, 307
- Gels, 307
- Gel tip, 131
- Glucose-derived surfactants, 317
  
- Hemin, 163
- Hemin polymer, 163
- Hetero-coagulation, 95
- Hydrogels, 307
- Hydrogenation, 107

- In-situ scanning tunneling microscopy (STM), 27  
Ion exchange, 17  
Ionic repulsion, 155  
Ionic self-assembly, 209  
Ionic strength, 85  
Ion selectivity, 187  
Ion transport, 5
- Langmuir-Blodgett film, 199  
Langmuir-Blodgett method, 295  
Layer-by-layer, 287  
LB films, 125, 241  
Light-harvesting complex, 199  
Lipid bilayer, 5  
Lyotropic aggregate, 271
- Membrane materials, 199  
Micelles, 227, 307  
Micellization, 75  
Microcrystals, 251  
Microstructural transformations, 67  
Modified electrodes, 241  
Molecular assembling, 271  
Molecular imprinting, 259  
Molecular packing, 171  
Molecular recognition, 259  
Molecular structure, 155  
Monoalkyl-monocationic surfactant, 35  
Monolayer, 47, 155, 171  
Multilayer assemblies, 209  
Mutual diffusion, 227
- n*-Alkylbenzenes, 75  
Nanoparticles, 219  
'Nanotube' structure, 27  
*n*-Octadecyltrichlorosilane (OTS) monolayer, 295
- Oligophenylenes, 5  
Organic crystal host, 177  
Organohalides, 163  
Orientation, 47  
Osmium complexes, 241  
Oxidation of ethylene, 59
- Peptide lipid, 143  
Photocurrent, 137  
Photogating, 187  
Photoreaction, 209  
Photoredox reactions, 329  
pH-sensitive polysoap hydrogels, 85  
Platinum colloids, 219
- Polyaniline, 209  
Polycyclic aromatic compounds, 75  
Polyelectrolyte, 287  
Polyelectrolyte brushes, 351  
Poly(methacrylic acid) corona microspheres, 95  
Poly(*N*-vinylisobutyramide), 107  
Polystyrene core-poly(vinylamine), 95  
Porous glass, 125  
Porphyrin, 137  
Potential distribution, 13  
Probe-oligonucleotides, 337  
Promotion effect of Cs and Re ions, 59  
Proton/electron cotransport, 329
- Quartz crystal microbalance, 317  
Quartz-crystal microbalance, 177
- Radical reactions, 219  
Receptor models, 5  
Reprecipitation method, 251
- Scanning probe microscopy, 171  
Silver nanoclusters, 59  
Single ion channel currents, 187  
Sodium ursodeoxycholate, 75  
Sol-gel, 137  
Solid state behavior, 117  
Solubilization, 75  
Sonochemistry, 219  
Sorption, 17  
Spheroidal particle, 13  
Surface charge density/surface potential relationship, 13  
Surface molecular imprinting, 259  
Surface-plasmon-field-enhanced fluorescence spectroscopy, 337  
Surfactant complexes, 117
- Terpyridine, 307  
Thermal properties, 117  
Thread like micelles, 67  
Titanium oxide, 137  
Tracer diffusion, 227  
Transient photobleaching and recovery, 233  
Transmembrane diffusion, 329  
Tripeptide derivatives, 271  
Tristearin, 317
- Ultrasound, 219
- Vitamin B<sub>12</sub>, 47, 143